Title (en)

ELECTRODE CONFIGURATION FOR VIBRATING BEAM TRANSDUCERS

Publication

EP 0366782 A4 19910313 (EN)

Application

EP 89906536 A 19890412

Priority

US 19480688 A 19880517

Abstract (en)

[origin: WO8911737A1] A technique is described for tailoring the configuration of electrodes (101-104) on a piezoelectric beam (100) such that the tendency of the beam to vibrate in a predetermined flexure mode is enhanced. The mode has a predetermined longitudinal strain versus longitudinal position profile (106). At least two electrodes are mounted on the beam, and the configuration of at least one electrode varies as a function of longitudinal position, such that when a voltage difference is applied between the electrodes, the longitudinal force produced by the electrodes, as a function of longitudinal position, approximates the longitudinal strain versus longitudinal position profile. The configuration may be varied by varying the width of the electrode or the position of the electrode on the underlying beam surface.

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H01L 41/08

IPC 8 full level

G01L 1/10 (2006.01); **G01P 15/02** (2006.01); **H01L 29/84** (2006.01); **H01L 41/09** (2006.01); **H01L 41/22** (2006.01)

CPC (source: EP US)

G01L 1/10 (2013.01 - EP US); **G01L 9/0022** (2013.01 - EP US); **G01P 15/097** (2013.01 - EP US); **H10N 30/87** (2023.02 - EP US)

Citation (search report)

- [A] US 3531742 A 19700929 - SAITO ISAO, et al
- [A] US 3831043 A 19740820 - HOFFMANN R, et al
- See references of WO 8911737A1

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

WO 8911737 A1 19891130; EP 0366782 A1 19900509; EP 0366782 A4 19910313; JP H02501862 A 19900621; US 4929860 A 19900529

DOCDB simple family (application)

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